UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

32940

7590

05/05/2005

DORSEY & WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT 4 EMBARCADERO CENTER **SUITE 3400** SAN FRANCISCO, CA 94111

EXAMINER CHEN, BRET P

ART UNIT

PAPER NUMBER

1762

DATE MAILED: 05/05/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,898	10/15/2003	Yoshihide Senzaki	A-717311/MSS	7540

TITLE OF INVENTION: TWO-STEP ATOMIC LAYER DEPOSITION OF COPPER LAYERS

APPLN. TYPE	APPLN. TYPE SMALL ENTITY		PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$300	\$1000	08/05/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 (703) 746-4000

			or <u>Fax</u>	(703) 746-4000			
INSTRUCTIONS: This for appropriate. All further cor indicated unless corrected to maintenance fee notification	below or directed otherwise	smitting the ISSU Patent, advance or in Block 1, by (a)	E FEE and PUBLI ders and notification) specifying a new	CATION FEE (if requ n of maintenance fees correspondence address	uired). Blocks I through 5 sl will be mailed to the current s; and/or (b) indicating a sepa	nould be completed where correspondence address as rate "FEE ADDRESS" for	
CURRENT CORRESPONDENC	E ADDRESS (Note: Use Block 1 for	any change of address)		Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must			
32940 75	90 05/05/2005			have its own certifica	te of mailing or transmission.	in or rotting diawing, must	
	PROPERTY DEPART	MENT		Ce I hereby certify that t States Postal Service	ertificate of Mailing or Trans this Fee(s) Transmittal is being with sufficient postage for first til Stop ISSUE FEE address PTO (703) 746-4000, on the d	mission g deposited with the United st class mail in an envelope	
4 EMBARCADER SUITE 3400				transmitted to the US	PTO (703) 746-4000, on the d		
SAN FRANCISCO), CA 94111			-		(Depositor's name)	
						(Signature)	
						(Date)	
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nonprovisional	YES	\$700	t	\$300	\$1000	08/05/2005	
EXAM	INER	ART UNI	T C	CLASS-SUBCLASS	٦		
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I. Change of correspondence	address or indication of "Fe	ee Address" (37	2. For printing or	the patent front page, l	ist		
CFR 1.363).		~		up to 3 registered pate	ent attorneys 1		
Address form PTO/SB/12	ence address (or Change of (22) attached.	Correspondence	or agents OR, alternatively, (2) the name of a single firm (having as a member a 2				
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered attorne	y or agent) and the nar it attorneys or agents. I	nes of up to		
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	HE PATENT (print	or type)			
PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion of	low, no assignee of this form is NOT	lata will appear on a substitute for filing	the patent. If an assigng an assignment.	nee is identified below, the de	ocument has been filed for	
(A) NAME OF ASSIGNE	E E	(B)) RESIDENCE: (CI	TY and STATE OR CO	OUNTRY)		
		•					
Please check the appropriate	assignee category or categor	ries (will not be pri	nted on the patent) :	☐ Individual ☐ C	Corporation or other private gro	oup entity Government	
la. The following fee(s) are	enclosed:	4b.	Payment of Fee(s):				
			A check in the amount of the fee(s) is enclosed.				
				Payment by credit card. Form PTO-2038 is attached.			
Advance Order - # of Copies The Director is hereby auth				hereby authorized by outlined	charge the required fee(s), or (enclose an extra co	credit any overpayment, to	
. Change in Entity Status	(from status indicated above						
a. Applicant claims SM	MALL ENTITY status. See 3	37 CFR 1.27.	☐ b. Applicant is n	o longer claiming SMA	ALL ENTITY status. See 37 CI	FR 1.27(g)(2).	
The Director of the USPTO in NOTE: The Issue Fee and Punterest as shown by the reco	is requested to apply the Issu ablication Fee (if required) words of the United States Pate	e Fee and Publicat vill not be accepted int and Trademark	ion Fee (if any) or to from anyone other Office.	re-apply any previous than the applicant; a reg	ly paid issue fee to the applica sistered attorney or agent; or th	tion identified above. le assignee or other party in	
Authorized Signature				Date		,	
Typed or printed name					n No		
This collection of information	n is required by 37 CFR 13	11. The information	n is required to obtain	n or retain a henefit hv	the public which is to file (and	by the USPTO to process)	
in application. Confidentiali ubmitting the completed ap his form and/or suggestions 30x 1450, Alexandria, Virgi Alexandria, Virginia 22313-	nia 22313-1450. DO NOT S	122 and 37 CFR I D. Time will vary ould be sent to the SEND FEES OR C	.14. This collection depending upon the Chief Information OMPLETED FORM	is estimated to take 12 individual case. Any confficer, U.S. Patent and AS TO THIS ADDRES	the public which is to file (and minutes to complete, includin omments on the amount of tir il Trademark Office, U.S. Depa S. SEND TO: Commissioner	g gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	
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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.